

# Notice of Allowability

Application No.

10/748,419

Examiner

Jonathan Liou

Applicant(s)

ZHU ET AL.

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/29/2003.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☒ The drawings filed on 29 December 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**RICHARD HJERPE**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600

### Interview Summary

During the telephone interview with David C. Hsia on July 15, 2005, the applicant agrees with the examiner and gives the permission to make following changes:

- To amend the equation (4) at page 4 in the specification by replacing  $P_{out}^i$  with  $P_{B(x,y)}^i$ .
- To amend the equation (6) at page 7 in the specification by replacing  $P_{Bi}^i$  with  $P_{Bk}^i$ .
- To amend claim 3 line 3 in the equation by replacing  $P_{Bi}^i$  with  $P_{Bk}^i$ , and to add the limits of the nth pair of corresponding areas to be  $2 \leq n \leq 4$  as disclosed in the specification.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with David C. Hsia on July 15, 2005.

The application has been amended as follows:

- The equation (4) at page 4 in the specification has been amended in the equation by replacing  $P_{out}^i$  with  $P_{B(x,y)}^i$ .

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- The equation (6) at page 7 in the specification has been amended in the equation by replace  $P_{Bi}^j$  with  $P_{Bk}^j$ .
- Claim 3 line 3 has been amended in the equation by replacing  $P_{Bi}^j$  with  $P_{Bk}^j$ .
- Claim 3 line 5, after “areas,” insert “the limit of the total number of corresponding boundary areas  $n$  is  $2 \leq n \leq 4$ ,”

2. The following is an examiner’s statement of reasons for allowance:

The prior art of record fails to teach or suggest determining a first difference between a first area surrounding the target patch and a corresponding first area surrounding the sample patch, and a second difference between a second area surrounding the target patch and a corresponding second area surrounding the sample patch. The closest prior art, Real-Time Texture Synthesis by Patch-Based Sampling to Liang Lin, U.S. Pat. No. 6,587,592 to Georgieve et al., U.S. Pat. No. 6,658,166 to Zlotnick et al., and U.S. Pat. No. 5,974,194 to Hirani et al. teach replacing a target patch with a sample patch, but do not teach or suggest determining first and second differences as claimed. Real-Time Texture Synthesis by Patch-Based Sampling to Liang Lin also determined the difference between the target patch and sample patch, but this reference does not teach or suggest determining the first and second differences between first and second areas surrounding the patches as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Liou whose telephone number is 571-272-8136. The examiner can normally be reached on 8:00AM ~ 5:00PM Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Liou

07/19/2005

  
7/21/05  
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